

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov



IN REPLY PLEASE REFER TO: 3452 East Mountain LMU (UTU-73336) (UT-923)

CERTIFIED MAIL - 7009-1410-0001-9070-3088

APR 0 6 2010

Interwest Mining Co.
Subsidiary of PacifiCorp
Scott M. Childs
Manager, Lands and Regulatory Affairs
1407 W. North Temple, Suite 310
Salt Lake City, Utah 84116

The Bureau of Land Management (BLM) received "...modifications and clarifications to the R2P2 for the Deer Creek Mine..." from PacifiCorp through its subsidiaries, Interwest Mining company (Interwest) and Energy West Mining Company (Energy West) dated April 29, 2004 along with maps. These maps provided the projected timing for mining of certain longwall panels in the Deer Creek and Cottonwood Mines.

Additional correspondence from PacifiCorp includes;

- December 15, 2006 BLM received "PacifiCorp's Modification and Reconfiguration of the East Mountain Logical Mining Unit Emery County, Utah (UTU-73336)."
- December 21, 2005 BLM received PacifiCorp's application to add the State Institutional Trust Lands (SITLA) Mill Fork tract to the LMU.
- April 2, 2010 BLM received: "Energy West Mining Company East Mountain LMU --Scanned Maps on Disk"

In the interim, BLM and PacifiCorp have continued to discuss the East Mountain Logical Mining Unit (LMU) and specific leases in light of Maximum Economic Recovery (MER) requirements (Title 43: Public Lands: Interior § 3482.2 (a)(2) Action on plans). During this time the PacifiCorp East Mountain coal production has been produced via the Deer Creek Mine from the SITLA Mill Fork coal lease.

BLM has now completed an assessment of the remaining recoverable reserves in the East Mountain LMU (UTU-73336). Attached are:

- Spreadsheets of the calculated remaining recoverable areas of coal reserves.
- Maps of labeled areas of remaining coal reserves in the Blind Canyon and Hiawatha coal seams.
- Description of the procedures used in calculating the remaining recoverable reserves for the Blind Canyon and Hiawatha coal seams.

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BLM recommends PacifiCorp reconsider the areas marked in blue on the maps for future mining (which were removed from the mining plan previously).

Because it is necessary to revise the East Mountain LMU (UTU-73336), a revised Resource Recovery and Protection Plan (R2P2) is needed (including projected timing of the mining). PacifiCorp is required to provide the necessary proposed R2P2 revision within 90 days of receipt of this letter. Any labeled red cross hatched areas, that PacifiCorp projects to be uneconomic in terms of MER at this time for mining must be specifically identified and numerically justified in economic terms. Also, PacifiCorp is welcome to recommend unlabeled areas that should be considered for coal energy recovery.

If you have questions please call Jeff McKenzie at (801) 539-4086 or Steve Rigby at (435) 636-3604.

Roger L. Bankert
Chief, Branch of Minerals

cc:

Ron Daniels State of Utah, Office of the Governor **Energy Policy Coordinator** 324 S. State, Suite 500 Salt Lake City, Utah 84111

Dana Dean, Associate Director, Mining Utah Division of Oil, Gas, and Mining Box 145801 Salt Lake City, Utah 84114-5801

Zions First National Bank, Trustee Malcolm N. McKinnon Trust P.O. Box 30880 Salt Lake City, Utah 84130-0880

Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day Saints c/o Natural Resources Section 50 East North Temple, 12th Floor Salt Lake City, Utah 84150-0001

BLM Price Field Office (Attn: Steve Rigby)

Siziazion Height Volume Ibs In place Tonnage Mining Height Height Volume Ibs In place Tonnage Mining Height Height	Height Voltume Ibs In place Tonnage Mining Height Cubic feet) Cubic feet) (Ibs) (Ions) (Ion		ast Mountain	projected	recoverable	I ABLE 1. East mountain projected recoverable tonnage - Blind Ca	nd Canyon seam		CONTINUOUS MINER	US MINER		LONGWALL	
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689,000 17.0 11,713,000 960,466,000 480,233 16.0 180,794 1,164,000 10.0 11,640,000 954,480,000 477,240 9.0 171,806 TOTAL 736,704	689,000 17.0 11,713,000 960,466,000 480,233 16.0 180,794 9.0 171,806 9.0 9.0 171,806 9.0<		2,498,000	8.0	19,984,000	1,638,688,000	819,344	7.5	307,254				
1,164,000 10.0 11,640,000 954,480,000 477,240 9.0 171,806 736,704	1,164,000 10,0 11,640,000 954,480,000 477,240 9.0 171,806 TOTAL Blind Canyon 9,436,711 tons		689,000	17.0	11,713,000	960,466,000	480,233	16.0	180,794				
736,704	736,704 7,130,527 TOTAL Blind Canyon 9,436,711 tons		1,164,000	10.01	11,640,000	954,480,000	477,240	0'6	171,806		5		
	9.436.711							TOTAL	736,704	7,130,527			1,569,480

NOTE 1: NOTE 2:

Calculations are based on a coal density of 82 lb/cubic foot.

DCM_BC_012 is block 2 and 1/2 south. The tonnage for block 2 and 1/2 south (125,000 tons) was derived from attachment <u>Bureau of Land Management Moab District STAFF REPORT page 5.</u>

The area cross-hatched in green is an area of low coal that is not included in the remaining recoverable reserves (based on most recent the geologic interpretation of November 2006).

NOTE 3:

82 lb/cubic foot Density

TABLE 2 Ea	st Mountain	projected	tonnage rest	TABLE 2 East Mountain projected tonnage reserves for the Hiar	liawatha seam.		CONTINU	CONTINUOUS MINER		LONGWALL	
DATE	3/23/2010)				First Mining	First Mining Room & Pillar	Development (20%)	Long	Total
Label	Area (constrained feat)	Height	Volume (cubic feet)	lbs [†]	In place Tonnage (tons)	Mining Height (feet)	40% (tons)	50% (tons)	40% (tons)	90% (tons)	(tons)
DCM HW 001	2 343 000	8.0	1	1,537,008,000	768,504	7.5		360,236			
DCM HW 002	38 007 000	80	60	24.932.592,000	12,466,296	7.5		5,843,576			
DOM HW DOS	20,000,000	12.0	200	19.680,000,000	9,840,000	11.0	E. B. S. S.		721,600	6,494,400	7,216,000
DCM HW 004	6 200 000	10.0		5.084,000,000	2,542,000	0.6		1,143,900			
DOM HIM DOR	2 849 000	06	L	1.954.962.000	977,481	8.0			69,510	625,588	860'969
DOW HIM DOG	2 732 000	0.8		1 792 192 000	960'968	7.5			67,207	604,865	672,072
DOM HW 007	851 000	7.0	13	488,474,000	244,237	6.5		113,396			
3	A	7.0	1			6.5		243,439		No. of Street,	
DOM HW 015	1	14.0	38.248.000	3.136.336.000	1,568,168	13.0		728,078			
DOM HW 016	7 354 000	110		6.633,308,000	3,316,654	10.0	1,206,056				
O ALL	00010011					TOTAL	1,206,056	8,432,626			8,583,170
									TOTAL Hiawatha	18,221,851 tons	tons

Calculations are based on a coal density of 82 lb/cubic foot.

Area DCM_HW_009 was previously mined by first mining extracting approximately 411,218 tons. The average pillar width was 77.5 feet (n=30). The in-place tonnage before mining was approximately 1,309,315 tons. The remaining pillars contain approximately 243,439 recoverable tons. The calculations are attached as Table 3 Projected tonnage of area DCM_HW_009. NOTE 1: NOTE 2:

Density

82 lb/cubic foot

LH.											
DAIE	3/23/2010						First Mining	Room & Pillar	Development (20%)	Longwall (80%)	Total
Label	Area	Height	Volume	e sql	In place Tonnage	Mining Height	40%	%09	40%	%06	LONGWALL
	(square feet)	(feet)	(cabic feet)	(sql)	(tons)	(feet)	(tons)	(tons)	(tons)	(tons)	(tons)
DCM BC 001	4,417,000	0.9	26,502,000	2,173,164,000	1,086,582	0.9		543,291		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DCM_BC_002	1 379 000	0.9	8 274 000	678,468,000	339,234	0.9		169,617			
DCM BC 003	5,254,000	0.9	31,524,000	2,584,968,000	1,292,484	0.9		646,242		The state of the state of	S 100 S 2
DCM_BC_004 6	7,173,000	0.6	64,557,000	5 293 674 000	2,646,837	8.0		1 176 372			
DCM BC 005	4,350,000	12.0	52,200,000	4 280 400 000	2,140,200	11.0			156,948	1,412,532	1,569,480
DCM BC 006	2,950,000	7.0	20,650,000	1 693 300 000	846,650	6.5		393,088			
DCM BC 007	5,501,000	8.0	44,008,000	3,608,656,000	1,804,328	7.5		845,779			
DCM BC 008	2,513,000	0.6	22 617 000	1 854 594 000	927,297	8.0		412,132			
DCM_BC_009 s	9,083,000	8.0	72,664,000	5,958,448,000	2,979,224	7.5		1,396,511			
DCM BC 010	4,435,000	11.0	48,785,000	4 000 370 000	2,000,185	10.0		909,175			
DCM BC 011	2,504,000	11.0	27,544,000	2,258,608,000	1,129,304	10.01		513,320			
DCM BC 012						,		125,000			
DCM BC 015	426,000	12.0	5,112,000	419,184,000	209,592	11.0	76,850	Note the second			SA SEPTION SERVICE
DCM BC 016	2,498,000	8.0	19 984 000	1 638 688 000	819,344	7.5	307,254				
DCM BC 017	000'689	17.0	11,713,000	960,466,000	480,233	16.0	180,794				
DCM BC 018	1,164,000	10.01	11,640,000	954,480,000	477,240	0.6	171,806				
DCM HW 001	2,343,000	8.0	18,744,000	1,537,008,000	768,504	7.5		360,236			
DCM HW 002	38,007,000	8.0	304,056,000	24 932 592 000	12,466,296	7.5		5,843,576			
DCM HW 003	20,000,000	12.0	240,000,000	19,680,000,000	9,840,000	11.0			721,600	6,494,400	7,216,000
DCM HW 004	6,200,000	10.0	62 000 000	5,084,000,000	2,542,000	0.6		1,143,900			
DCM HW 005	2,649,000	9.0	23,841,000	1,954,962,000	977,481	8.0			69,510	625,588	860'589
DCM HW 006	2,732,000	8.0	21,856,000	1 792 192 000	960'968	7.5			67,207	604,865	672,072
DCM HW 007	851,000	7.0	5,957,000	488,474,000	244,237	6.5		113,396			
DCM HW 009	4,913,000	7.0				6.5		243,439			
DOM HW 015	2,732,000	14.0	38,248,000	3,136,336,000	1,568,168	13.0		728,078	0.00		
DCM HW 016	7,354,000	11.0	80,894,000	6,633,308,000	3,316,654	10.01	1,206,056				
						CM Subtotals	1 942 760	15,563,152		LW Subtotal	10,152,650

TOTAL		27,658,562 short tons	short tons
Projected Market Value* Royalty at 8% of \$39.85 per short ton*	↔ ↔	1,102,193,697 88,175,496	
Royalty to Federal (1/2 distribution) \$	€	44,087,748	
Royalty to the State of Utah (1/2 distribution)	€9	44,087,748	

DCM_BC_012 is block 2 1/2 south. The tonnage for block 2 1/2 south (125,000 tons) from <u>Bureau of Land Management Moab District STAFF REPORT</u> page 5. NOTE 1:

Area DCM_HW_009 was previously mined by first mining extracting approximately 411,218 tons. The average pillar width was 77.5 feet (n=30). The in-place tonnage before mining was approximately 1,309,315 tons. The remaining pillars contain approximately 243,439 recoverable tons. The calculations are attached as Table 3 Projected tonnage of area DCM_HW_009.

NOTE 2:

NOTE 3: Density 82 lb/cubic foot

\$39.85/ short ton from "SNL Energy COAL REPORT" March 29, 2010 page 35 "Physical Market" table NOTE 4: If the Sea Gull Mine workings cannot be accessed, the remaining recoverable tonnage could be reduced by some 162,000 tons. NOTE 5:

The area cross-hatched in green is an area of low coal that is not included in the remaining recoverable reserves (based on most recent the geologic interpretation of November 2006). NOTE 6:

TABLE 3. PROJECTED TONNAGE OF AREA DCM_HW_009 DATE: 03/23/2010

Pillar width	10
measurement	e
(feet) ²	
73	_
79	
76	
79	-
82	
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82	
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78	
72	
76	_
80	
77	
77	
89	
65	
76	
80	
80	
82	
81	_
75	_
71 78	-
(0	

PILLAR WIDTH AN	IALYSIS
Mean	77.533
Standard Error	0.777
Median	78
Mode	79
Standard Deviation	4.257
Sample Variance	18.120
Range	24
Minimum	65
Maximum	89
Sum	2326
Count	30

OF ONE PILLAR
77.5 ft
6006 square ft
7 ft
42044 cubic ft
82 lb/cubic foot
3447588 lbs
1724 tons/pillar
֡

AREA DCM_HW_009	PROJECTED TONNAGE	
	4 pillar wide drift 5 pillar w	ride drift
Length of west drift 2	3294	1270
Length of east drift 2	4592	2713
Total length	7886	3983
Number of rows of west drift	33	13
Number of rows of east drift	46	28
Total rows	79	41
Total number of pillars	316	205
Total number of pillars	521 pillars	
Tons per pillar	1724 tons/pilla	r
Tonnage of all pillars	898,097 tons	
Area DCM_HW_009	4,913,000 square fe	et
Mining height	6.5 ft	
In-place tonnage before mining	1,309,315 tons	
50% of In-place tonnage (R&P)	654,657 tons	
Tonnage of rooms (mined out)	411,218 tons	
Projected Tonnage HW_009	243,439 tons	

Note 1: Calculations are based on a coal density of 82 lb/cubic foot. Note 2: A map of the pillar width and drift length is attached.

East Mountain REMOVED projected tonnage reserves	IN REMOVED) projected	d tonnage res	serves			CONTINU	CONTINUOUS MINER		LONGWALL	
DATE	3/23/2010						First Mining	Room & Pillar	Development (20%) Longwall (80%)	Longwall (80%)	Total
Label	Area	Height	Volume	e sql	In place Tonnage	Mining Height	40%	20%	40%	%06	LONGWALL
	(square feet)	(feet)	(cubic feet)	(sql)	(tons)	(teet)	(tons)	(tons)	(tons)	(tons)	(tons)
DCM_BC_013	19,524,000	7.0	136,668,000	11 206 776 000	5,603,388	6.5			416,252	3,746,265	4,162,517
DCM_BC_014	28,228,000	9.0	254,052,000	20,832,264,000	10,416,132	8.0			740,703	6,666,324	7,407,027
DCM_BC_019	29,143,000	0.7	204,001,000	16 728 082 000	8,364,041	6.5	3,106,644				
						BC Subtotal	3,106,644	*	1,156,954	10,412,590	11,569,544
DCM HW 008	1,941,000	12.0	23,292,000	1 909 944 000	954,972	11.0			70,031	630,282	700,313
DCM HW 010	10,394,000	0.9	62,364,000	5 113 848 000	2,556,924	0.9		1,278,462			
DCM HW 011	51,188,000	7.0	358,316,000	29,381,912,000	14,690,956	6.5		6,820,801			
DCM HW 012	3,097,000	7.0	21,679,000	1,777,678,000	888,839	6.5		412,675			
DCM HW 013	2,386,000	0.9	14,316,000	1,173,912,000	956'985	0.9		293,478			
DCM HW 014	1 657 000	7.0	11,599,000	951,118,000	475,559	6.5	176,636				
						HW Subtotal	176,636	8,805,416	70,031	630,282	700,313
						CM Subtotals	3,283,280	8,805,416		LW Subtotal	12,269,857

short tons	24,358,553	Total removed tonnage
	9,682,365	Hiawatha Tonnage
	14.070,100	Dilling Carryon Lorinage

970,688,339 77,655,067 Projected Market Value⁴ \$ 4 of \$39 85 per short ton⁴ \$

Royalty at 8% of \$39.85 per short ton4

38,827,534 Royalty to Federal (1/2 distribution) \$

38,827,534 Royally to the State of Utah (1/2 distribution) \$

DCM_BC_012 is block 2 1/2 south. The tonnage for block 2 1/2 south (125,000 tons) from Bureau of Land NOTE 1:

Management Moab District STAFF REPORT page 5.

Area DCM_HW_009 was previously mined by first mining extracting approximately 411,218 tons. The average pillar width was 77.5 feet (n=30). The in-place tonnage before mining was approximately 1,309,315 tons. The remaining pillars contain approximately 243,439 recoverable tons. The calculations are attached as Table 3 Projected tonnage of area DCM_HW_009. NOTE 2:

82 lb/cubic foot Density NOTE 3;

\$39.85/ short ton from "SNL Energy COAL REPORT" April 5, 2010 page 33 "Physical Market" table NOTE 4:

BLM Assessment

of the

East Mountain

BLIND CANYON SEAM

Recoverable Reserves

as of

April 6, 2010

SUMMARY

The projected remaining recoverable reserves for the Blind Canyon seam at East Mountain are 9.4 million tons of coal. The projected remaining recoverable reserves are categorized by three different mining methods; first mining, room and pillar mining, and longwall mining. The projected tonnage reserves for first mining, room and pillar mining, and longwall mining are 736,704 tons, 7,130,527 tons, and 1,569,480 tons respectively.

An area that has been removed from the approved mining plan is shown in blue on the southwest side of the coal reserve and contains a projected 14.6 million tons of recoverable coal in the Blind Canyon Seam as detailed in the fifth page of the spreadsheets. This area was projected to be minable in the "Evaluation of the East Mountain Study Area Emery County, Utah" by Behre Dolbear & Company, Inc. of Denver, Colorado. The Blind canyon and Hiawatha tonnage total 24.3 million tons for the area previously removed from the mine plan.

PROCEDURE

The projected tonnage reserves for the Blind Canyon seam were derived from the map DEER CREEK MINE, LIFE OF MINE PLAN/5 YEAR INCREMENTS, BLIND CANYON COAL SEAM of April 30, 2004. The map was provided to the Bureau of Land Management (BLM) by ENERGY WEST MINING COMPANY. The map was stamped by a professional engineer, John Christensen. The map was scanned as a jpeg file and then imported into Autodesk Map 3D 2007. The map was scaled to size according to the provided scale of 1-inch is equal to 1000-feet.

Areas of interest were outlined and hatched in red and then given a label. Two or more adjacent areas of interest were grouped as a location. The total number of locations of the Blind Canyon seam was six and the total number of areas of interest was eighteen. When outlining areas of interest, a distance of 200-feet was given between the closest previously mined out longwall panel development entries and

the closest area of interest. A distance of 200-feet was given between an outcrop and the closest area of interest. A distance of 100-feet was given between a fault and the closest area of interest when considering room and pillar mining or longwall mining. A distance of 50-feet was given between the outer extent of Deer Creek Mine lease boundaries and the closest area of interest. Maps of the six locations are attached. The maximum minable coal thickness used was 12 feet and the minimum was 5 feet.

In Location 4 there is an area of low coal that is not included in the remaining recoverable reserves. This area is cross-hatched in green which is based on the most recent geologic interpretation dated November 2006.

The approach for two areas was based on the work of others:

- 1. Location 5 contains is a unique area of interest referred to as 2 ½ south block. The area of 2 ½ south block was not measured again for this evaluation. A tonnage of 125,000 tons was projected previously for 2 ½ south block. The projected tonnage for 2 ½ south block was taken from the Bureau of Land Management STAFF REPORT page 5 dated August 26, 1987 and a copy of the report is attached.
- 2. Location 6 consists of a series of longwall panels. The dimensions of the longwall panels were taken from the mine plan map by the Behre Dolbear & Company, Inc. of Denver Colorado (Behre Dolbear). The longwall panels in the Behre Dolbear mine plan extended beyond the Deer Creek Mine permit boundary and therefore the longwall panels in the Blind Canyon seam were truncated at the west boundary. A map of the Behre Dolbear mine plan is attached.

The area in square feet was calculated from the command "LIST" in Autodesk Map 3D. The seam height in feet was determined from the East Mountain LMU UTU73336 Modification and Reconfiguration report. The volume was then calculated using equation 1.

The coal density was assumed to be 82 pounds per cubic foot. The mass in pounds was calculated using equation 2.

$$(Volume)x(Density)/2000 = tons$$
 (Eq. 2)

The in-place tonnage was calculated using the conversion factor of 2000-lbs is equal to 1-ton. A roof/floor coal thickness factor was subtracted from the total coal thickness to arrive a mining height as follows:

Total Coal Seam Height (feet)	Coal Thickness Subtracted (feet)
> 8	1.0
8	0.5
7	0.5
< 7	0.0

The mining height was calculated by the difference between the seam height and the height allowed for dilution.

The recovery percentage used for first mining was 40% (no subsidence mining). The recovery percentage used for room and pillar mining was 50%. The tonnage for 40% first mining was calculated using equation 3. The tonnage for room and pillar mining was calculated using equation 4.

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.4) = First Mining Tonnage$$
 (Eq. 3)

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.5) = Room and Pillar Tonnage$$
 (Eq. 4)

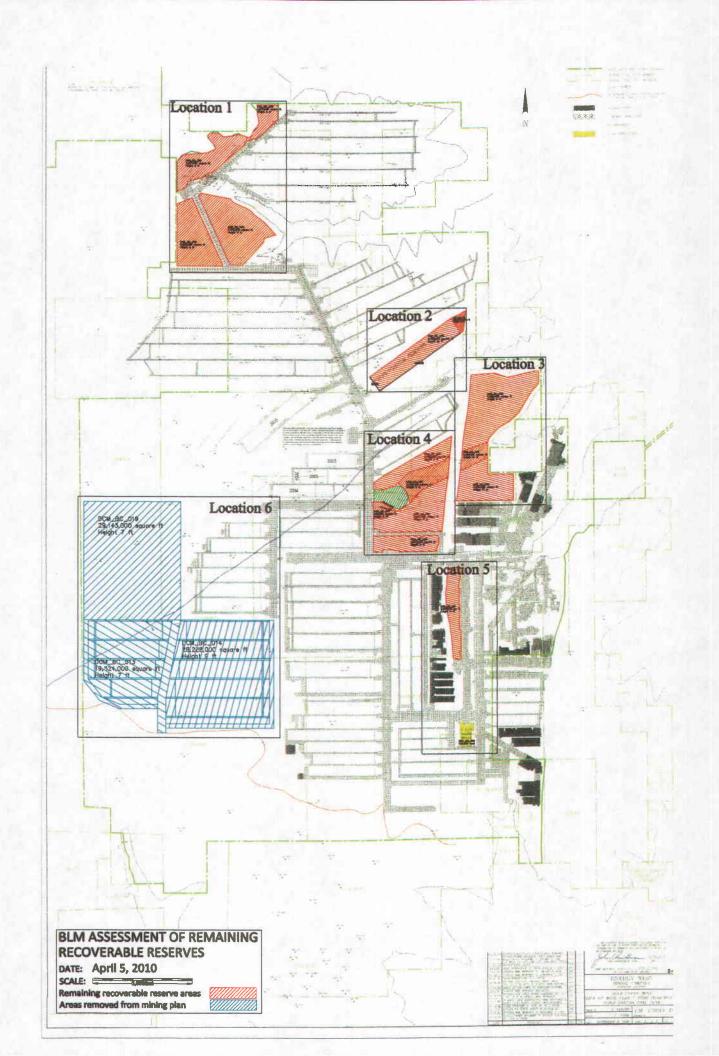
First mining was applied under the power line corridor. Detail of the extraction areas and percentages used is included in the attached spreadsheet and illustrated in the enclosed location maps.

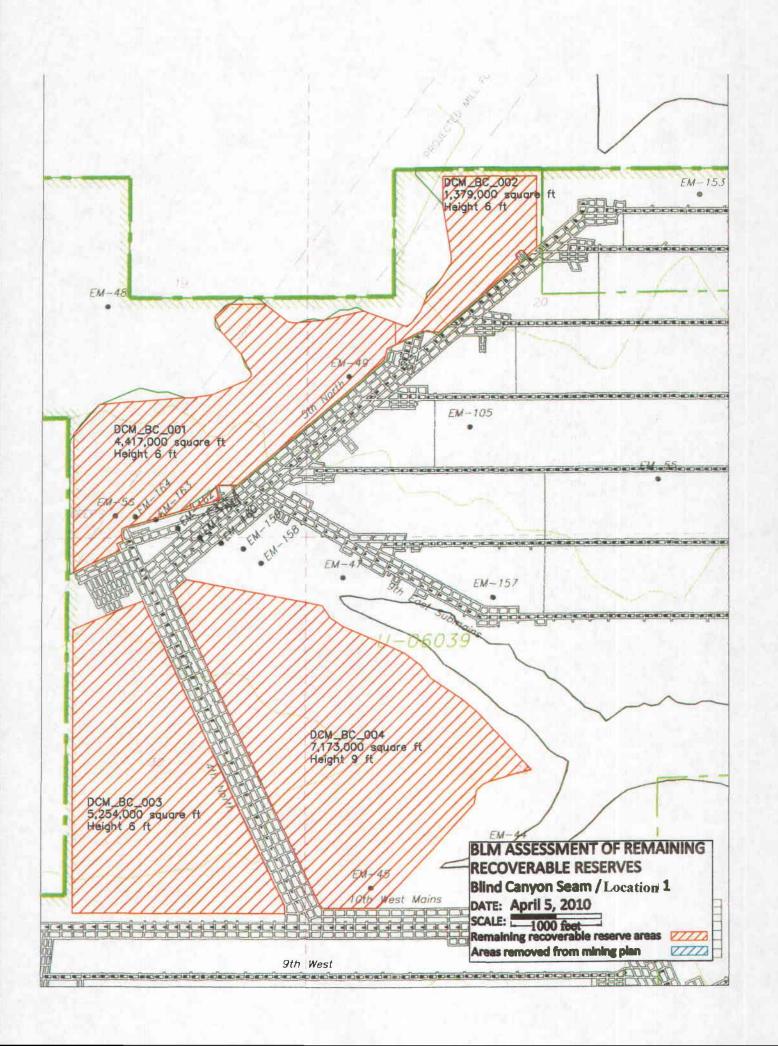
The longwall mining calculation is split into two columns, development and longwall. An assumed 20% of the in-place coal was calculated as development and the remaining 80% was calculated as longwall mining. The recovery percentage used for development was 40%. The recovery percentage used for longwall mining was reduced by 90% to allow for seam undulations. The development tonnage and the longwall tonnage were calculated using equation 5 and equation 6 respectively.

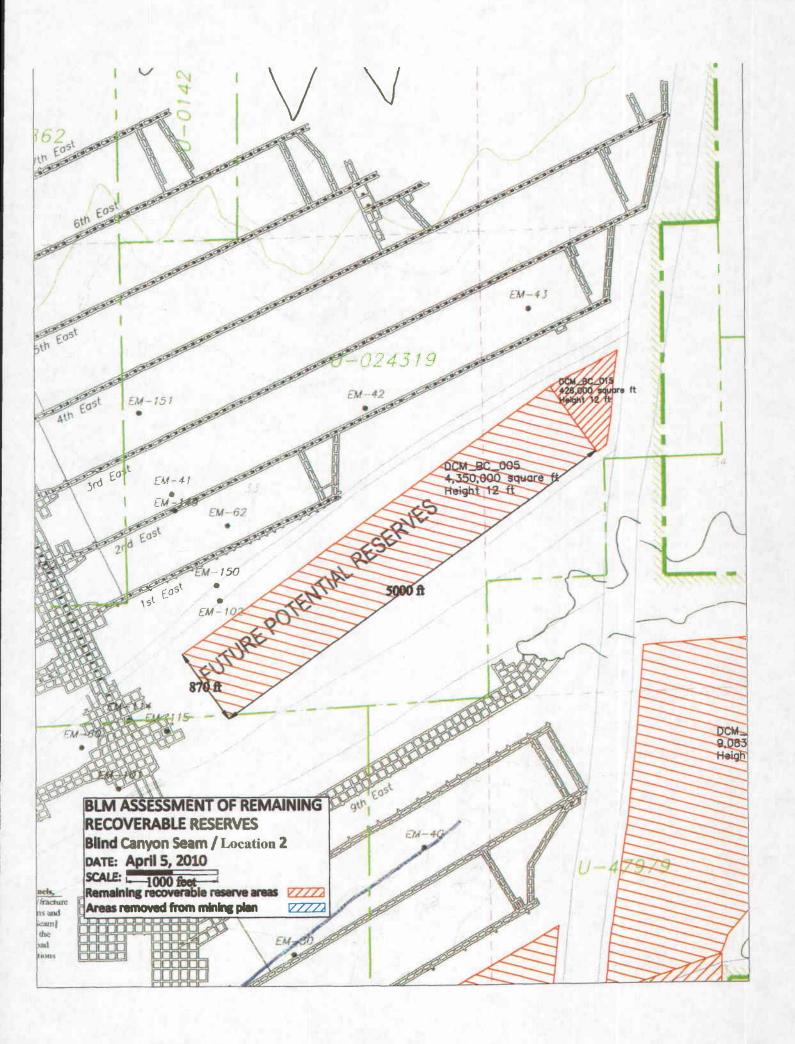
$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.2)x(0.4) = Development Tonnage$$
 (Eq. 5)

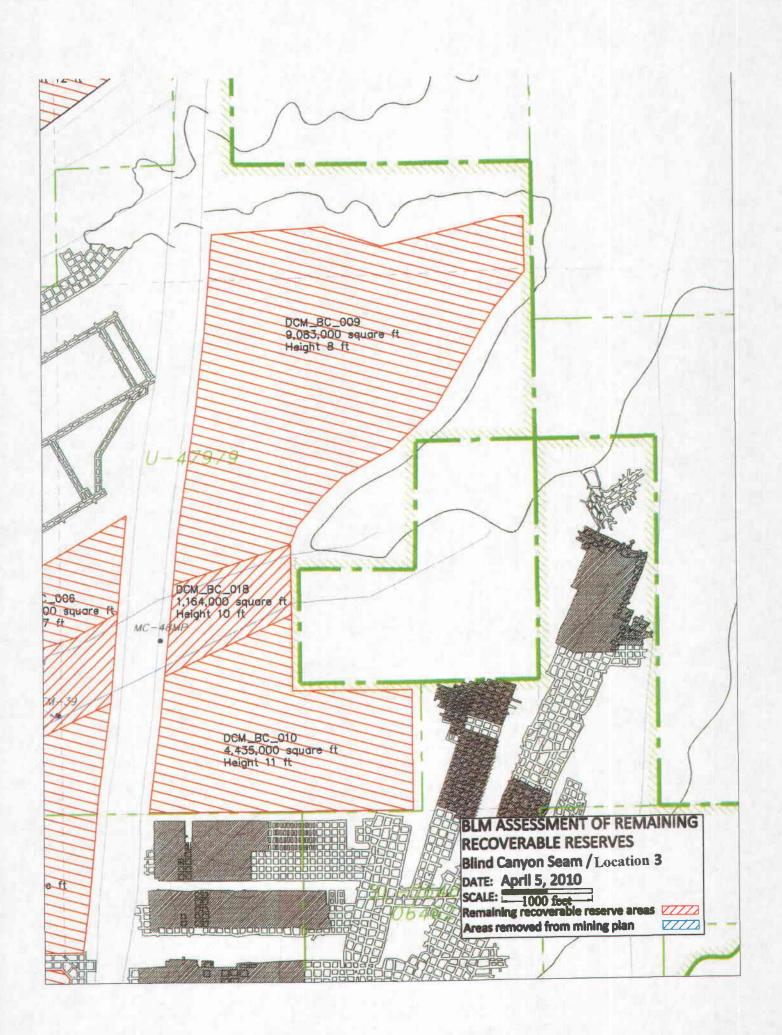
$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.8)x(0.9) = Longwall Tonnage$$
(Eq. 6)

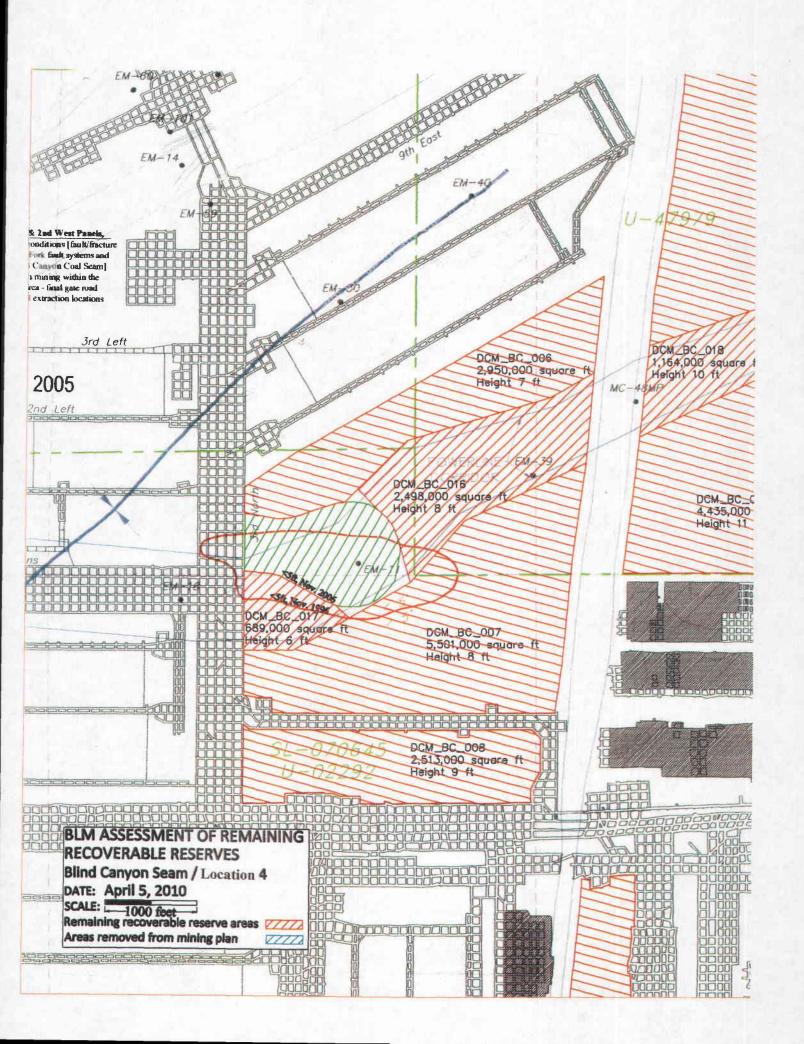
A spread sheet of all calculations is attached and includes the tonnages by location and by lease.

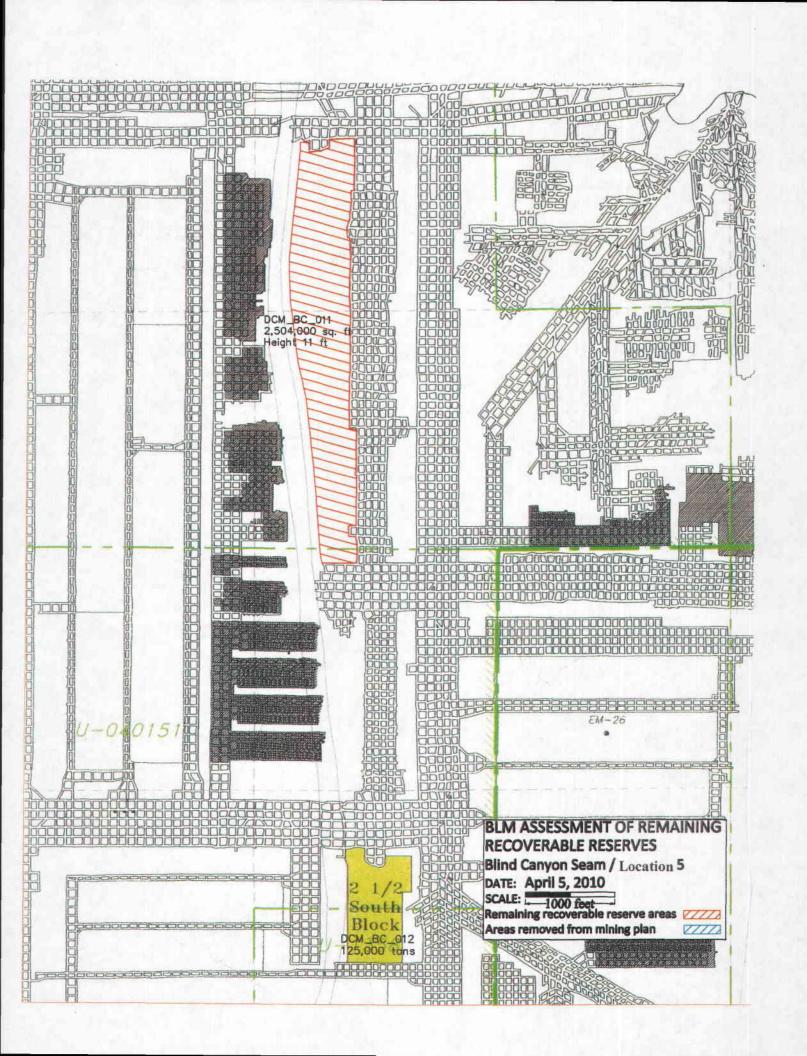


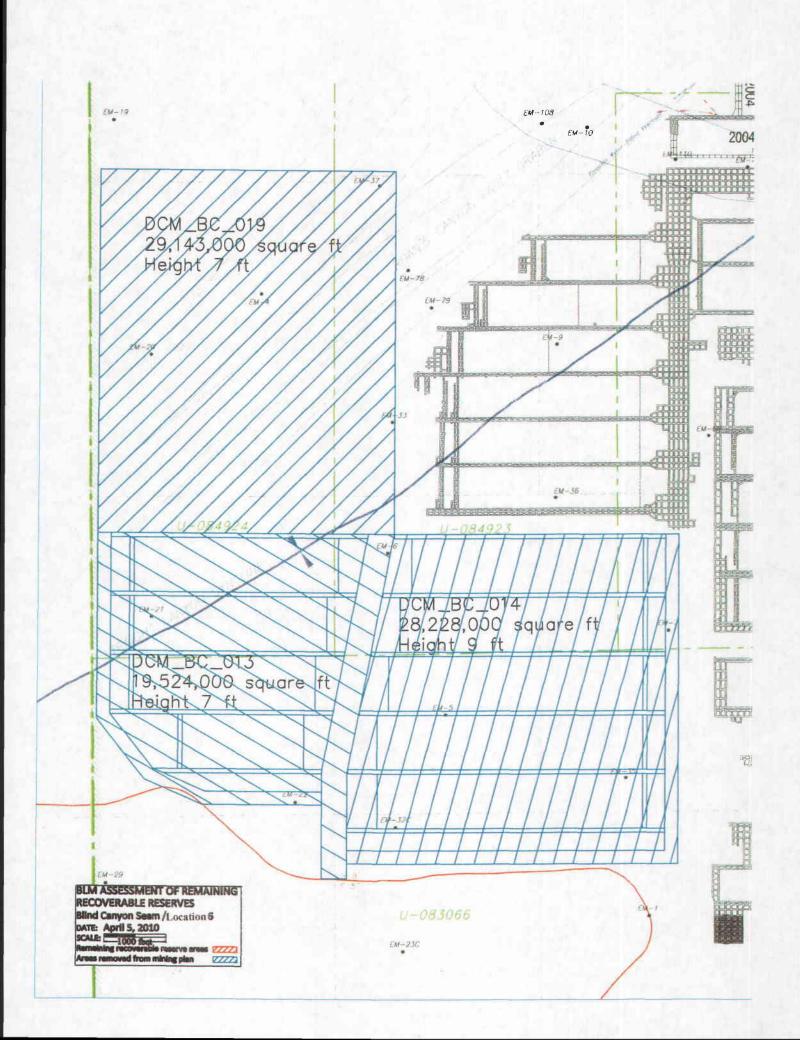












BLM Assessment

of the

East Mountain

HIAWATHA SEAM

Recoverable Reserves

as of

April 2, 2010

SUMMARY

The total projected remaining recoverable reserves for the Hiawatha seam at East Mountain are approximately 18.2 million tons of coal. The total remaining recoverable reserves are categorized by three different mining methods; first mining, room and pillar mining, and longwall mining. The projected tonnage reserves for first mining, room and pillar mining, and longwall mining are 1,206,056-tons, 8,432,626-tons, and 8,583,070-tons respectively.

Areas that have been removed from the approved mining plan is shown in blue on the southwest side and east side of the coal reserve and contain a projected 9.6 million tons of recoverable coal in the Hiawatha seam as detailed in the fifth page of the spreadsheets. This area was projected to be minable in the "Evaluation of the East Mountain Study Area Emery County, Utah" by Behre Dolbear & Company, Inc. of Denver, Colorado. The Blind canyon and Hiawatha tonnage total 24.3 million tons for the area previously removed from the mine plan. Other smaller areas removed from the mine plan are also shown in blue but are in addition to the above total for the Hiawatha Seam (DCM_HW_004 and DCM_HW_016).

PROCEDURE

The projected tonnage reserves for the Hiawatha seam were derived from the map DEER CREEK MINE, LIFE OF MINE PLAN/5 YEAR INCREMENTS, BLIND CANYON COAL SEAM of April 30, 2004. The map was provided to the Bureau of Land Management (BLM) by ENERGY WEST MINING COMPANY. The map was stamped by a professional engineer, John Christensen. The map was scanned as a jpeg file and then imported into Autodesk Map 3D 2007. The map was scaled to size according to the provided scale of 1-inch is equal to 1000-feet.

Areas of interest were outlined and hatched in red and then given a label. Two or more adjacent areas of interest were grouped as a location. The total number of locations of the Hiawatha seam was three and the total number of areas of interest was sixteen. When outlining areas of interest, a distance of 200-feet was given between the closest previously mined out longwall panel development entries and the closest area of interest. A distance of 200-feet was given between an outcrop and the closest area of interest. A distance of 100-feet was given between a fault and the closest area of interest when considering room and pillar mining or longwall mining. A distance of 50-feet was given between the outer extent of Deer Creek Mine lease boundaries and the closest area of interest. Maps of the three locations are attached. The maximum minable coal thickness used was 12 feet and the minimum was 5 feet.

Location three contains an area of interest labeled DCM_HW_009. The area DCM_HW_009 was previously mined by first mining. The in-place tons before mining were approximately 1,309,315-tons. Approximately 411,218 tons of coal were previously mined out. Approximately 234,439-recoverable-tons remain to be mined by room and pillar mining methods. The procedure for calculating the projected tons for area DCM_HW_009 are attached.

The area in square feet was calculated from the command "LIST" in Autodesk Map 3D. The seam height in feet was determined from the East Mountain LMU UTU73336 Modification and Reconfiguration report. The volume was then calculated using equation 1.

The coal density was assumed to be 82 pounds per cubic foot. The mass in pounds was calculated using equation 2.

$$(Volume)x(Density)/2000 = tons$$
 (Eq. 2)

The in-place tonnage was calculated using the conversion factor of 2000-lbs is equal to 1-ton. A roof/floor coal thickness factor was subtracted from the total coal thickness to arrive a mining height as follows:

Total Coal Seam Height (feet)	Coal Thickness Subtracted (feet)
> 8	1.0
8	0.5
7	0.5
< 7	0.0

The mining height was calculated by the difference between the seam height and the height allowed for dilution.

The recovery percentage used for first mining was 40% (no subsidence mining). The recovery percentage used for room and pillar mining was 50%. The tonnage for 40% first mining was calculated using equation 3. The tonnage for room and pillar mining was calculated using equation 4.

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.4) = First Mining Tonnage$$
 (Eq. 3)

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.5) = Room and Pillar Tonnage$$
 (Eq. 4)

The longwall mining calculation is split into two columns, development and longwall. An assumed 20% of the in-place coal was calculated as development and the remaining 80% was calculated as longwall mining. The recovery percentage used for development was 40%. The recovery percentage used for longwall mining was reduced by 90% to allow for seam undulations. The development tonnage and the longwall tonnage were calculated using equation 5 and equation 6 respectively.

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.2)x(0.4) = Development Tonnage$$
 (Eq. 5)

$$(Area)x(Mining Height)x(Density)x(1 ton/2000 lbs)x(0.8)x(0.9) = Longwall Tonnage$$
 (Eq. 6)

A spread sheet of all calculations is attached and includes the tonnages by location and by lease.

